

FIGURE DRAWING FOR FASHION DESIGN File PDF

Figure drawing for fashion design is an essential skill that every aspiring fashion designer must master to bring their creative visions to life. It serves as the foundation for illustrating clothing designs on realistic human forms, enabling designers to communicate ideas effectively to clients, manufacturers, and pattern makers. Whether you are sketching haute couture or casual streetwear, understanding how to accurately depict the human figure is crucial for translating conceptual ideas into visual representations that resonate with audiences. This comprehensive guide explores the fundamentals of figure drawing for fashion design, offering practical tips, techniques, and insights to elevate your illustration skills and enhance your overall design process.

Understanding the Importance of Figure Drawing in Fashion Design

Figure drawing bridges the gap between conceptual ideas and tangible fashion sketches. It provides a visual context for clothing, helping designers visualize how garments will look and fit on real bodies. Accurate figure drawing ensures that proportions, posture, and movement are realistic, which is vital for creating garments that are both aesthetically appealing and functional.

Why Mastering Figure Drawing Matters

- Enhances understanding of human anatomy, leading to more realistic sketches
- Improves ability to illustrate different poses and movements, adding dynamism to designs
- Facilitates clear communication of ideas to clients, manufacturers, and pattern makers
- Serves as a foundation for developing personal style and unique design signatures
- Helps in understanding garment fit and drape on various body types

Fundamental Elements of Figure Drawing for Fashion Design

A solid grasp of the core components of figure drawing will enable you to create compelling fashion illustrations. These elements include proportions, anatomy, posture, and gesture.

Proportions

Proportions are the ratios of different parts of the human body. In fashion illustration, the standard figure is often depicted as 9 to 10 heads tall, which emphasizes elegance and elongation typical of fashion figures.

Key points about proportions:

- The head is used as a measuring unit.
- The total height of the figure typically ranges from 8 to 10 heads.
- The torso, legs, and arms are proportionally scaled to create a balanced silhouette.
- Stylized fashion figures may exaggerate certain features, but understanding realistic proportions is essential.

Anatomy

A foundational knowledge of human anatomy helps in depicting realistic poses and movements. Focus on understanding:

- Skeletal structure
- Muscular system
- Joint articulation

Tips for mastering anatomy:

- Study anatomy charts and references.
- Practice breaking down complex forms into simple shapes.
- Use mannequins or live models for observation.

Posture and Gesture

Gesture drawing captures the essence and movement of a pose. It's vital for adding life and dynamism to fashion sketches.

How to improve gesture drawing:

- Practice quick sketches of poses (30 seconds to 2 minutes).
- Focus on the flow and energy of the pose rather than details.
- Use sweeping lines to convey weight and movement.

Techniques for Effective Figure Drawing in Fashion Design

Developing technical skills is key to producing professional-quality fashion figures. Here are some

techniques to enhance your figure drawing process.

Using Basic Shapes and Construction Lines

Start with simple geometric forms to build the figure:

- Ovals for the head, shoulders, and hips.
- Cylinders for limbs.
- Lines for the spine and limbs to establish posture and movement.

Benefits:

- Ensures correct proportions.
- Makes complex poses manageable.
- Provides a flexible framework for adding clothing details.

Mastering the Silhouette

A clean, clear silhouette helps showcase the overall shape and flow of your design.

Steps to create a strong silhouette:

- Sketch the outline of the figure first.
- Focus on the overall shape before adding internal details.
- Use bold lines to define the form.

Drawing from Life and References

Practice with live models, photographs, or fashion magazines to understand real-world anatomy and movement.

Tips:

- Keep a sketchbook dedicated to figure studies.
- Analyze poses and note how clothing interacts with the body.
- Experiment with different body types and ethnicities.

Incorporating Fashion Elements into Figure Drawing

Once the basic figure is established, the next step is to dress your figure with garments that reflect your design ideas.

Sketching Clothing on the Figure

- Use light lines to outline the garment's shape.
- Pay attention to how fabric folds and drapes over the body.
- Consider the weight, texture, and movement of different fabrics.

Highlighting Fabric Details

- Add details such as pleats, gathers, and seams.
- Use shading to indicate volume and texture.
- Show how the fabric interacts with body contours.

Creating Dynamic Poses to Showcase Designs

- Draw figures in action to demonstrate how clothing moves.
- Use asymmetrical poses to add interest.
- Emphasize the flow and style of your garments through lively gestures.

Tools and Materials for Figure Drawing in Fashion Design

Choosing the right tools can make a significant difference in your drawing process.

Traditional Media

- Pencils (HB, 2B, 4B) for sketching and shading.
- Markers for bold outlines.
- Watercolors or colored pencils for rendering fabrics.

Digital Tools

- Drawing tablets (e.g., Wacom, iPad with Procreate).

- Illustration software (e.g., Adobe Illustrator, Photoshop).
- Fashion-specific apps with pre-made templates.

Tips for Improving Your Figure Drawing Skills

Consistent practice and continuous learning are vital for mastery.

Key tips:

- Practice daily or regularly to develop muscle memory.
- Study fashion figures from professional sketches and tutorials.
- Attend workshops or classes focused on figure drawing.
- Keep a reference library of anatomy and fashion images.
- Experiment with different styles and techniques to find your voice.
- Seek feedback from peers or mentors.

Conclusion: Elevating Your Fashion Design with Figure Drawing

Mastering figure drawing is a pivotal step in becoming a successful fashion designer. It enhances your ability to visualize and communicate complex ideas, bringing your creative visions to life on paper. By understanding fundamental principles, practicing various techniques, and continuously refining your skills, you can produce compelling fashion illustrations that captivate your audience and set your work apart. Remember, the journey to proficiency involves patience, dedication, and a passion for both art and fashion. Embrace the process, study widely, and never stop exploring new ways to express your unique design perspective through figure drawing.

Figure Drawing for Fashion Design: A Comprehensive Guide to Bringing Your Creations to Life

In the world of fashion design, the ability to accurately depict the human figure is an essential skill that transforms sketches into compelling visual narratives. Figure drawing for fashion design serves as the foundational backbone of any successful collection, allowing designers to communicate their ideas with clarity, precision, and style. Whether you're a novice stepping into your first illustration class or a seasoned designer refining your technique, mastering figure drawing is a critical step toward elevating your creative process and professional portfolio.

Why Figure Drawing Matters in Fashion Design

Before diving into techniques and tips, it's important to understand why figure drawing is so vital in fashion design:

- Visualizing Garments in Context: Clothing doesn't exist in isolation; it interacts with the human form. Accurate figure drawing helps visualize how garments fit, flow, and move on real bodies.
- Proportion and Anatomy: Understanding human proportions ensures that designs look realistic and wearable, avoiding disproportionate or awkward silhouettes.
- Communication: Clear figure sketches communicate ideas effectively to pattern makers, clients, and manufacturers.
- Design Development: Quick sketches of figures enable rapid exploration of designs, poses, and styling options.

The Basics of Figure Drawing for Fashion

Understanding Human Anatomy and Proportions

At the core of figure drawing is a solid grasp of anatomy and proportions, which serve as the blueprint for realistic and stylized representations.

- Standard Proportions: The classic fashion figure is often based on an 8 to 9 head-tall proportion. The head becomes a unit of measurement to establish the rest of the body:

- Head = 1 unit
- Shoulders = 2-3 heads wide
- Waist = 3-4 heads down from the top
- Hips = 4-5 heads from the top
- Legs = 4-5 heads long

- Variations: Fashion illustrations often exaggerate or stylize proportions to create a certain aesthetic—longer legs, a cinched waist, or a more elongated neck.

- Anatomical Landmarks: Knowing key points—such as the collarbones, ribcage, pelvis, knees, and ankles—helps maintain consistency and realism.

Essential Poses and Gestures

Dynamic poses bring life to your figures. Practice quick gesture sketches to capture the movement and energy.

- Basic Poses: Standing, sitting, walking, and turning.
- Expressive Gestures: Emphasize flow and attitude, conveying mood and personality.

- Balance and Weight: Show how weight shifts in different poses to add authenticity.

Tools and Materials for Figure Drawing

Choosing the right tools can significantly influence your drawing process:

- Pencils: HB, 2B, 4B for sketching and shading.
- Markers or Inks: For bold lines and clean finishes.
- Paper: Smooth Bristol or sketch pads suited to your medium.
- Digital Tools: Tablets with styluses, drawing software like Procreate or Adobe Photoshop for versatile editing.

Step-by-Step Guide to Drawing Fashion Figures

- Start with Basic Shapes
 - Use simple geometric forms?ovals for the head, cylinders for limbs, and a box or cone for the torso.
 - Sketch lightly to establish the overall pose and proportions.
- Establish the Skeleton and Gesture
 - Add a stick figure or simplified skeleton to define movement.
 - Capture the gesture?this is the "flow" of the pose that communicates energy.
- Flesh Out the Anatomy
 - Build volume around the gesture with basic shapes representing muscles and body parts.
 - Pay attention to the anatomical landmarks.
- Define the Clothing and Details

- Sketch the clothing over the figure, considering fabric behavior and fit.
- Use lines to indicate seams, folds, and stylistic elements.
- Finalize with Clean Lines and Shading
- Erase unnecessary guidelines.
- Add shading or color to emphasize form and style.

Tips for Improving Your Figure Drawing Skills

- Practice Regularly: Dedicate time daily or weekly to figure drawing exercises.
- Use References: Study photos, live models, or fashion magazines.
- Focus on Proportions: Consistently check your work against standard or stylized proportions.
- Draw Quickly: Speed sketches enhance your ability to capture gesture and movement.
- Experiment with Styles: From realistic to highly stylized, explore different aesthetics.
- Attend Life Drawing Classes: Live models provide invaluable understanding of anatomy and pose.

Advanced Techniques for Fashion Figures

Stylization and Exaggeration

Fashion illustration often relies on stylization to express mood and brand identity:

- Lengthen limbs or necks for elegance.
- Emphasize narrow waists or broad shoulders.
- Play with proportions to create unique silhouettes.

Rendering and Coloring

- Use light shading to suggest volume.
- Incorporate color palettes that complement your designs.
- Highlight fabric textures such as silk, denim, or leather.

Incorporating Fabric and Drapery

Understanding how fabric behaves is crucial:

- Study how different materials drape on the body.
- Use lines and shading to depict folds and movement.
- Practice drawing various fabrics from different angles.

Common Challenges and How to Overcome Them

- Proportional Errors: Regularly compare your sketches to standard measurements.
- Stiff Poses: Practice gesture drawing to add fluidity.
- Lack of Confidence: Keep a sketchbook dedicated to quick figure sketches.
- Difficulty with Clothing: Study fashion photography and runway shows for real-life examples.

Integrating Figure Drawing into Your Fashion Design Workflow

- Initial Concept Sketches: Use quick figure sketches to explore ideas.
- Design Development: Draw figures in different poses to showcase garments.
- Technical Drawings: Create detailed figure templates for pattern drafting.
- Presentation Boards: Incorporate stylized figures to enhance mood and storytelling.

Final Thoughts

Mastering figure drawing for fashion design is a journey that combines technical skill, artistic sensitivity, and fashion intuition. While it requires consistent practice and patience, the rewards are immense: the ability to visualize your ideas convincingly, communicate with clarity, and develop a signature aesthetic. Remember, every sketch you create is a step toward stronger, more expressive fashion illustrations that captivate and inspire.

Whether you're sketching in a sketchbook or preparing professional portfolios, investing time in figure drawing will elevate your entire fashion design process. Embrace experimentation, study the masters, and keep drawing?your unique fashion figures await.

Question What are the essential proportions to consider when drawing figures for fashion design? Typically, fashion figures are drawn with elongated proportions, often 9 to 10 heads tall, with a focus on accentuating the waist, hips, and shoulders to showcase clothing effectively. **Answer** How can gesture drawing improve figure drawing for fashion design? Gesture drawing captures the movement and flow of the pose quickly, helping designers create dynamic and natural-looking figures that better display how garments fit and move. What are some tips for rendering fabric and

texture in fashion figure sketches? Use varied shading techniques, such as hatching and cross-hatching, to depict different fabrics; pay attention to how light interacts with materials, and emphasize folds and drapes to add realism. Which digital tools are popular for figure drawing in fashion design? Software like Adobe Photoshop, CorelDRAW, and fashion-specific tools like CLO 3D and Marvelous Designer are widely used for creating detailed and editable fashion figures digitally. How important is anatomy knowledge when drawing figures for fashion design? While stylization is common, understanding human anatomy helps ensure accurate proportions and realistic poses, making the clothing look natural and flattering on the figure. What exercises can help improve speed and confidence in fashion figure drawing? Practicing quick gesture sketches, daily figure drawing sessions, and studying fashion illustration tutorials can boost your speed, improve anatomy understanding, and build confidence in your sketches.

Related keywords: fashion illustration, figure sketching, fashion figure poses, fashion croquis, fashion illustration techniques, clothing rendering, figure proportion, fashion design sketches, fashion drawing tutorials, model drawing

FIGURE MATRICES 4TH GRADE

Figure Matrices 4th Grade: A Simple Guide to Understanding and Learning

If you're a 4th-grade student or a parent helping a young learner, you might have heard about figure matrices 4th grade and wondered what they are. Don't worry! Figure matrices are a fun and engaging way to explore patterns, shapes, and relationships using organized grids or tables. They are a great tool to help young students develop logical thinking, visual skills, and problem-solving abilities. In this article, we'll break down everything you need to know about figure matrices suitable for 4th graders, making it easy and enjoyable to learn.

What Are Figure Matrices?

Figure matrices are arrangements of pictures, shapes, or symbols organized in rows and columns, forming a grid or table. They are used to identify patterns, complete sequences, or find the missing piece in a puzzle. Think of a figure matrix like a puzzle or a game where you analyze what's happening in each part of the grid to understand the bigger picture.

Why Are Figure Matrices Important for 4th Graders?

- Enhance Pattern Recognition: Recognizing patterns helps in math and everyday

problem-solving.

- Improve Logical Thinking: Figuring out how shapes or pictures relate to each other boosts reasoning skills.
- Develop Visual Skills: Spotting differences and similarities sharpens visual perception.
- Build Foundation for Advanced Math: Understanding matrices and patterns prepares students for algebra and geometry.

Understanding the Components of Figure Matrices

To grasp figure matrices, it's important to understand their basic parts.

The Grid

The grid is the arrangement of rows and columns where each cell contains a picture, shape, or symbol. The grid can be simple (like 2x2) or more complex (like 3x3 or 4x4).

The Patterns or Rules

Within the grid, there are often patterns or rules that connect the shapes or pictures in each row or column. Recognizing these patterns is key to solving or completing the matrix.

The Missing Piece

In many figure matrices, one piece is missing, and your task is to figure out what should go there based on the patterns you see.

How to Approach Figure Matrices in 4th Grade

Learning how to analyze figure matrices involves a step-by-step process.

Step 1: Observe Carefully

Look at all the pictures or shapes in the grid. Notice details like color, size, shape, or orientation.

Step 2: Identify Patterns

Check if the shapes change in a specific way across rows or columns. For example:

- Does the shape change from circle to square?
- Does the color alternate between red and blue?

- Does the size increase or decrease?

Step 3: Find the Relationship

Determine how the shapes or pictures relate to each other. Is there a sequence or a rule? For example:

- The shape might rotate by 90 degrees in each step.
- The number of sides might increase by one in each row.

Step 4: Predict the Missing Piece

Using the pattern or rule you've identified, figure out what should go in the empty cell.

Step 5: Verify Your Answer

Check if your predicted shape or picture fits with the pattern in the entire matrix. Does it make sense with the other pieces?

Examples of Figure Matrices for 4th Graders

Let's look at some simple examples to illustrate how figure matrices work.

Example 1: Shape Pattern

| | Column 1 | Column 2 | Column 3 |

|---|-----|-----|-----|

| Row 1 | Circle | Square | ? |

| Row 2 | Triangle | ? | Hexagon |

Pattern analysis:

- In row 1, shapes are changing from circle to square.
- In row 2, shapes start with triangle, then a missing shape, and then hexagon.
- The pattern might involve increasing the number of sides or changing shapes systematically.

Solution:

- For row 1, the missing shape might be a triangle, continuing the pattern of adding sides.
- For row 2, the missing shape could be a square to match the pattern of increasing sides.

Example 2: Color Pattern

| | Column 1 | Column 2 | Column 3 |

|---|-----|-----|-----|

| Row 1 | Red Shape | Blue Shape | ? |

| Row 2 | Green Shape | ? | Red Shape |

Pattern analysis:

- Colors alternate in a sequence.
- The missing shape in row 1, column 3, might be a red shape to continue the pattern.
- The missing shape in row 2, column 2, might be a blue shape.

Activities for 4th Graders to Practice Figure Matrices

Practicing with figure matrices can be fun! Here are some activities to help build skills:

- Pattern Discovery

Create a 2x2 or 3x3 grid with shapes, colors, or objects. Ask the student to identify patterns and fill in missing pieces.

- Shape Sorting

Use different shapes and colors. Make a matrix where the student has to arrange shapes based on size or color patterns.

- Puzzle Creation

Have students design their own figure matrices and challenge classmates to find the missing pieces.

- Online Interactive Games

Many educational websites offer interactive figure matrix puzzles suitable for 4th graders.

Tips for Teaching Figure Matrices to 4th Graders

Teaching young students about figure matrices can be made easier with these tips:

- **Start Simple:** Use small grids like 2x2 or 3x3 to build confidence.
- **Use Visual Aids:** Incorporate colorful shapes and pictures to make patterns clear.
- **Encourage Observation:** Ask questions about what they notice in the patterns.
- **Make It Fun:** Turn pattern recognition into games or puzzles to keep students engaged.
- **Relate to Real Life:** Connect patterns to everyday objects or situations for better understanding.

Conclusion: Mastering Figure Matrices in 4th Grade

Understanding figure matrices in 4th grade is a vital step toward developing strong problem-solving and logical thinking skills. By learning to recognize patterns, analyze relationships, and predict missing pieces, students build a solid foundation for future math concepts and critical thinking abilities. Remember, the key is to observe carefully, think logically, and practice regularly through fun activities and puzzles.

Whether in the classroom or at home, exploring figure matrices can be an enjoyable way to boost your child's confidence and interest in math and patterns. So, get ready to dive into colorful grids, discover exciting patterns, and solve puzzles with confidence!

Figure Matrices 4th Grade: An In-Depth Exploration of Early Geometric and Pattern Recognition Skills

Mathematics education at the 4th-grade level often introduces students to foundational concepts that underpin advanced mathematical thinking. Among these concepts, figure matrices 4th grade emerge as a critical component in developing visual-spatial reasoning, pattern recognition, and logical thinking skills. This article aims to provide a comprehensive investigation into figure matrices tailored for 4th-grade learners, exploring their pedagogical importance, cognitive benefits, typical formats, and effective strategies for instruction and assessment.

Understanding Figure Matrices in the Context of 4th Grade

Defining Figure Matrices

A figure matrix is a structured arrangement of visual elements—shapes, patterns, or images—organized systematically in rows and columns. These matrices often present a pattern or rule governing the progression of figures, prompting students to identify the underlying logic and predict missing elements.

In 4th-grade education, figure matrices serve as visual puzzles that challenge students to observe relationships, classify figures, and deduce rules, thereby fostering critical thinking.

The Role in Mathematical Development

At this stage, learners are transitioning from concrete arithmetic operations to more abstract reasoning. Figure matrices support this development by:

- Enhancing pattern recognition skills
- Promoting logical deduction
- Strengthening spatial reasoning
- Encouraging systematic problem-solving approaches

By engaging with figure matrices, students begin to understand how different elements relate and evolve within a structured system, laying the groundwork for algebraic thinking and geometry.

Typical Formats and Examples of Figure Matrices for 4th Graders

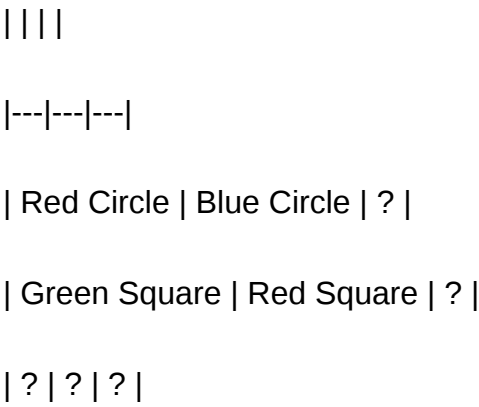
Common Types of Figure Matrices

Figure matrices used in 4th grade tend to vary in complexity but generally fall into a few recognizable formats:

- Shape Progression Matrices: Where the shape changes systematically across rows or columns (e.g., size, color, number of sides).
- Pattern-Based Matrices: Where patterns involve transformations such as rotation, reflection, or shading.
- Combination Matrices: Incorporating multiple attributes (shape, color, orientation) to increase complexity.

Sample Pattern for Illustration

Consider a simple 3x3 matrix:



Students are asked to identify the pattern and fill in the missing figures. The pattern may involve color rotation, shape change, or position shifts.

Educational Benefits of Figure Matrices in 4th Grade

Developing Visual and Spatial Skills

Engaging with figure matrices requires students to analyze visual information critically, fostering an improved sense of spatial relationships and visual discrimination.

Enhancing Logical and Pattern Recognition Abilities

Recognizing patterns in matrices encourages students to think systematically, identify rules, and apply logic to predict missing elements, essential skills in problem-solving.

Supporting Cross-Disciplinary Thinking

Pattern recognition skills developed through figure matrices translate to other subjects like science (e.g., recognizing patterns in data), art (e.g., symmetry and design), and language arts (e.g., sequencing).

Building Foundation for Advanced Mathematics

Mastering figure matrices prepares students for more complex tasks such as algebra, functions, and geometry, where understanding relationships and transformations are fundamental.

Instructional Strategies for Teaching Figure Matrices

Step-by-Step Approach

- Introduction of Attributes: Begin by exploring individual attributes of shapes?size, color, number of sides, orientation.
- Pattern Identification: Guide students to observe how attributes change across rows or columns.
- Rule Formulation: Encourage students to articulate the rules governing the pattern.
- Prediction and Verification: Have students predict missing elements and verify their reasoning.

Use of Visual Aids and Manipulatives

- Physical shape cut-outs
- Interactive digital puzzles
- Pattern blocks and tiles

Promoting Collaborative Learning

Group activities foster discussion, reasoning skills, and exposure to diverse problem-solving approaches.

Integrating Technology

Educational software and apps designed for pattern recognition can make figure matrix exercises engaging and adaptable to individual student levels.

Assessment and Challenges in Implementing Figure Matrices

Assessment Techniques

- Observation of student reasoning during problem-solving
- Formative quizzes to identify understanding
- Portfolio of completed matrices
- Oral explanations of the discovered rules

Common Challenges

- Overly complex matrices may overwhelm 4th graders
- Limited exposure to abstract reasoning can hinder pattern recognition

- Language barriers in articulating rules

Strategies to Overcome Challenges

- Start with simple, concrete examples
- Use visual and hands-on activities
- Provide ample practice with gradual increases in difficulty
- Foster a classroom environment supportive of trial, error, and discussion

Research and Evidence Supporting the Use of Figure Matrices

Multiple educational studies underscore the effectiveness of pattern-based reasoning tasks like figure matrices in early education. Findings suggest that consistent engagement improves cognitive flexibility, attention to detail, and problem-solving skills. Additionally, integrating such tasks aligns with cognitive development theories emphasizing active learning and discovery.

Specifically, research indicates that students who regularly practice pattern recognition outperform peers in spatial reasoning tasks and develop better mathematical reasoning over time. Implementing figure matrices in the classroom thus aligns with best practices in mathematics instruction for elementary learners.

Conclusion: The Significance of Figure Matrices in 4th Grade Education

The exploration of figure matrices 4th grade reveals their vital role in nurturing essential mathematical and cognitive skills during a formative educational phase. These visual puzzles serve as engaging tools that bridge concrete understanding with abstract reasoning, fostering skills that are foundational for future academic success.

Effective instruction involves a blend of visual aids, systematic approaches, and collaborative learning, all aimed at demystifying pattern identification and logical deduction. While challenges exist, thoughtful implementation can significantly enhance students' problem-solving capacity, spatial awareness, and readiness for more advanced mathematical concepts.

As educators continue to refine their approaches, integrating figure matrices into the curriculum promises to cultivate not only mathematical competence but also critical thinking, attention to detail, and perseverance—all qualities vital for lifelong learning.

In summary, figure matrices for 4th graders are more than just puzzles; they are gateways to developing analytical thinking and geometric understanding. As part of a comprehensive math

education, they offer a dynamic and effective means to prepare young learners for the complexities of future mathematical concepts and everyday problem-solving.

Question What is a figure matrix? A figure matrix is a grid that shows different shapes or pictures arranged in rows and columns, helping us see patterns and relationships. How can I find the pattern in a figure matrix? Look at how the shapes change from one row to the next, such as size, color, or shape, to understand the pattern. What is the purpose of a figure matrix in math? It helps you practice recognizing patterns, sequences, and relationships between different shapes or objects. Can you give an example of a simple figure matrix? Sure! For example, a 2x2 matrix with a red circle in the first cell, a blue square in the second, a red circle in the third, and a blue square in the fourth shows a pattern of color and shape repeating. Why are figure matrices important for 4th graders? They help improve your skills in pattern recognition, logical thinking, and problem-solving, which are important in math and everyday life.

Related keywords: figure matrices, 4th grade math, matrix basics, elementary math, matrix exercises, grade 4 math activities, simple matrices, math worksheets, pattern recognition, foundational math skills

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